

Communications & Power Industries Coaxial Magnetron



The SFD313B is a coaxial magnetron delivering high peak and average RF power for use in various radar transmitters.

The SFD313B will mount directly into new and existing sockets and can be operated under various pulse and input conditions to accommodate wide ranging operating requirements. In addition to high power, the SFD313B provides excellent frequency stability, low jitter and long life.

FEATURES:

- Frequency 5.40 – 5.90 GHz
- Peak power output 1 MW min.
- Duty cycle .001
- Air cooled
- Mechanically tunable

BENEFITS:

- >40,000 hours life
- Exceptional frequency stability

APPLICATIONS:

- Weather radars
- Search radars

CPI C-Band 1 MW Coaxial Magnetron: SFD313B

Electrical Specifications

Frequency	5.4 – 5.90 GHz
Peak power output (min.)	1.0 MW
Average power output (min.)	1.0 kW
Pulse voltage	33.5 – 37.5 kV
Peak anode current	60 A
Average anode current	60 mA
Maximum pulse width	3.0 μ S
Duty cycle	0.001
Maximum filament voltage	7.5 V
Maximum filament current	25 A
Minimum warm-up time	300 S
Maximum load VSWR	1.5:1

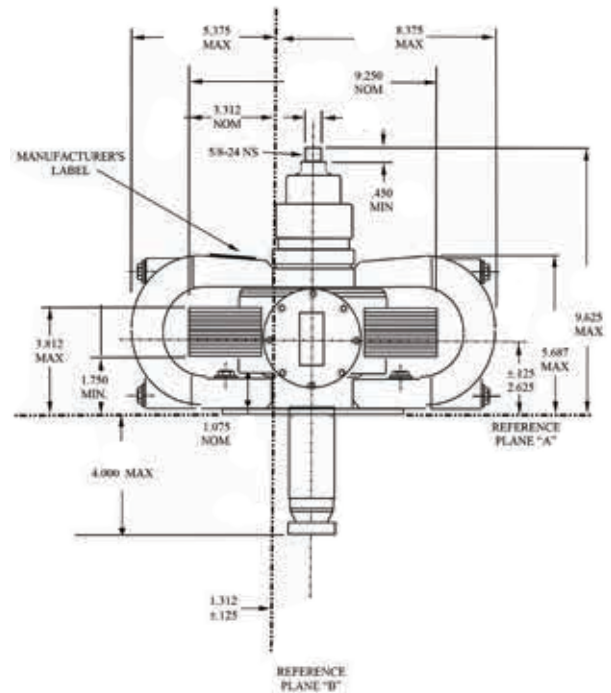
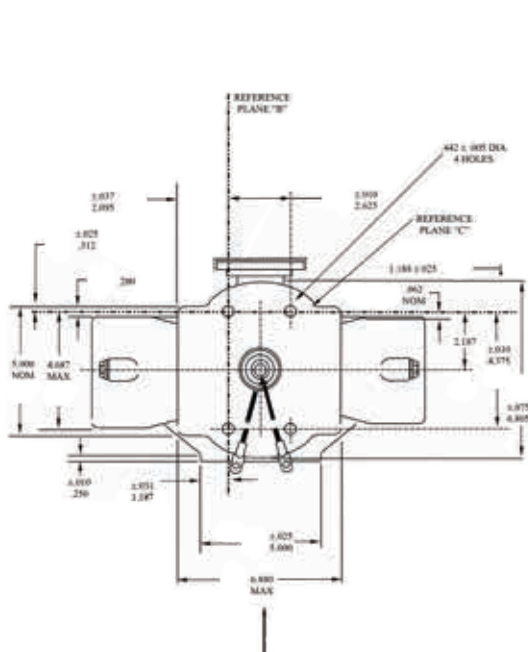
Mechanical and Environmental Specifications

Cooling	Forced air
Maximum body temperature	115°C
Mounting position	Any
Support	Mounting flange
Coupling	WR 187 mates with UG148B/U choke flange modified for clearance holes
Weight	57 lbs. (25.85 kg)

*Electrical specifications are typical. Other operating conditions are obtainable.

With a history of producing high quality products, we can help your with magnetron.

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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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